

UTS 400 Text Editor



The SPERRY UNIVAC® UTS 400 Text Editor is a freestanding text-editing terminal containing its own built-in microprocessor and memory. It offers a complete set of easy-to-use functions specifically designed for creative text editing in the printing and publishing industry. It is particularly useful for processing large masses of text for eventual print reproduction via typesetting equipment, and is compatible with the UNISCOPE® 100 and 200 series terminals.

The keyboard and 128-character set used by the Text Editor were designed to meet the needs of the printing and publishing industry. The microprocessor programs for text manipulation are contained in 16K of read-only memory incorporated in the Text Editor. A further 4K of random-access memory is also contained in the terminal for text data storage, text management

key control, the host command "adverb" area, the character string manipulation format area and the transmission buffer area. The random-access memory is expandable in two increments of 8K to a maximum of 20K—or 229 lines of text.

The firm program within the Text Editor terminal includes routines for block deletion, insertion, transfer and copying of text. Groups of color-coded keys on the keyboard can be used in conjunction with the firm program to manipulate text, initiate text management functions, insert display-sensitive commands in text, insert nonsensitive commands in text and provide many other functions to aid ease of operation and efficiency.

The full screen capacity of the UTS 400 Text Editor is 24 lines of 80 characters each. Since the top line is reserved for system messages, three screen

presentations are possible: full screen of 23 80-character lines, split-screen of two 23-line 39-character-per-line units, and a "format" mode with 10 lines of 80 characters for string-format text manipulation.

Scrolling to the beginning or end of text at high speed is a special Text Editor feature. In the split-screen mode, either column can be scrolled and edited independently.

The intelligence built into the SPERRY UNIVAC UTS 400 Text Editor offers the opportunity to free a central computer from considerable text-editing burdens, with consequent savings in processor time while eliminating contention for system resources. It is powerful, versatile and easy to use.

A variety of peripherals extend the usefulness and power of the UTS 400 Text Editor.

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UTS 400 Text Editor

The UTS 400 Text Editor is a powerful text editing terminal. Offline with its associated peripherals, it can be used as an independent editing system. Online, it can be used as part of a total host processor-controlled text editing system. It can fill either role interchangeably—or perform both during the day's work.

When you are using the text editor as an independent system, you can enter data directly or read data from one of the peripheral storage devices; after editing the data, you can then transfer the result to a peripheral device for storage or printing (or both).

As a part of a total system, the text editor can use either the host processor or a peripheral device as a source of text and as a storage medium for the edited result. But the host is relieved of text manipulation functions, since the text editor performs independently for large segments of its capabilities.

The SPERRY UNIVAC UTS 400 Text Editor is greatly enhanced when you add one or more of the associated peripheral devices—the Model 610 Tape Cassette System, the Diskette Subsystem, the Model 800 Terminal Printer,

and the Communications Output Printer (COP). A single text editor may be equipped with any combination of these devices.

Freestanding Diskettes

The freestanding diskette subsystem for the UTS 400 Text Editor is a small, cost-effective on-line storage device. Each of the dual drives holds one flexible disk about the size of a 45 rpm phonograph record.

Control of each of the dual disk drives is selective: each drive is controlled independently of the other, and only one drive at a time performs an operation.

Each flexible disk has a fully loaded capacity of 256K bytes of text storage, for a dual-diskette capacity of 512K bytes. Each disk has 77 data tracks, with a format track of 26 sectors at 128 bytes per sector. Average access time is 260 milliseconds, with an average latency time of 83 milliseconds. The transfer rate is 31.25K bytes per second.

The functions available on the diskette are: seek to track, read sector, select drive and prep track. The select drive permits device selection via a select line. Up to four dual-diskette systems can be "daisy chained" on a common interface line to the Text Editor. Selection is made by the controlling host.

The freestanding dual-diskette mass-storage device offers low-cost, high-performance random-access text storage. It is particularly well-suited to the storage of text at an editing terminal—where the text is most needed—and to relieve a host processor of some of its storage burden.

Tape Cassette

The SPERRY UNIVAC tape cassette system is a desk-top off-line storage unit capable of

containing 1,440,000 characters of text with a single loading of the dual cassette transports. Text can be quickly read from the unit, as well.

The tape cassette system permits large, batch-like transmissions of edited text to the central processor during low-traffic periods for the greatest efficiency in using the resources of both the Text Editor and the host processor. Such transmission can even be controlled entirely by the host processor without the need for an operator at the terminal.

Model 800 Terminal Printer

The SPERRY UNIVAC Model 800 terminal printer is a compact, high-speed, exceptionally quiet device with both off-line and on-line printing capability of 300 characters per second. Its printing speed is 100 full 80-column lines per minute from a 96-character upper- and lowercase font. The Model 800 terminal printer uses a non-impact printing method to produce a single copy of all the data or text on a UTS 400 Text Editor screen. It fits easily onto a desk top, and can be controlled from the UTS 400 Text Editor keyboard once it is loaded.

Communications Output Printer

The SPERRY UNIVAC communications output printer is a free-standing device that can print one to six copies of data or text at a maximum rate of 30 characters per second. It gives you a maximum of 132 print positions horizontally, with line spacing of six lines per inch and character spacing of ten characters per inch. The printer uses edge-sprocketed forms 11 inches long, and from 3 $\frac{5}{8}$ to 14 $\frac{1}{8}$ inches wide. With the variable forms length feature, it can handle forms up to 999 lines in length.



Terminal Multiplexer

With the SPERRY UNIVAC Terminal Multiplexer, multiple text editors can be connected into a data communications system at one system interface point. Housed in a small, freestanding cabinet, it includes control logic, interface logic, line drivers and receivers, and a power supply. As an option, it may contain either a SPERRY UNIVAC U-201 Synchronous Modem or a U-202 Asynchronous Modem.

The basic multiplexer provides system connection for 8 text editors and can be expanded in increments of 4 to accept 16 text editors. As noted previously, multiplexer cascading is not allowed with text editors.

The multiplexer permits synchronous or asynchronous full-duplex communications through common-carrier modems, or full-duplex synchronous operation directly with a central processor equipped with suitable communications adapters.

The primary purpose of the multiplexer is to select, one at a time, those text editors that have information to send to the host processor and to provide line access to the selected text editor. The text editor with the highest priority condition is selected first. To save time and number of transmissions, the multiplexer also combines with the priority message certain communications protocol responses from a previously selected text editor. The multiplexer does not detect or recognize characters; this function is performed by the text editor.



UTS 400 Text Editor

FUNCTIONAL CHARACTERISTICS

Display format

23 x 80
2 x 23 x 39
10 x 80

View area

10 inches wide by 7 inches high

Character generation

9 by 7 dot matrix

Character generator

96 data characters plus 32 special characters

Transmission code

7-level ASCII plus parity

Transmission mode

Half-duplex

Transmission facilities

Voice grade (telephone switched network or private line)

Transmission type

Synchronous
Asynchronous

Transmission rates

Synchronous up to 9600 bits per second
Asynchronous at 300, 600, 1200, 1800, or 2400 bits per second

Communications interfaces

EIA RS-232-C/CCITT V.24
MIL-STD-188

Data sets

SPERRY UNIVAC U-201
Synchronous Modem or equivalent

SPERRY UNIVAC U-202

Asynchronous Modem or equivalent

Error detection

Character and message block parity with automatic retransmission
Refresh buffer
Microprogram check of potential errors in edit functions

Selective calling

Processor can select text editor or peripheral device or both; processor can initiate data transfer from the text editor

Keyboard

Uppercase/lowercase and numeric with key controls for text editing, composition, text management, and peripheral transfer

Language selection

Domestic (U.S.)

Special function keys

Keys that generate unique characters for text management

PHYSICAL CHARACTERISTICS

Width 20 inches
Height 13 inches
Depth 28 inches
Weight 65 pounds

POWER REQUIREMENTS

Nominal voltage:
100, 120, 220, or 240 volts

Nominal frequency:
50 or 60 Hz

Phases and lines:
Single phase, 3 wire

Nominal load:
200 watts

Btu per hour:
600



PERIPHERAL DEVICES

SPERRY UNIVAC Model 610

Tape Cassette System

Read/write speed

6 inches per second
(4800 bits per second)

Dual cassette capability

1,440,000 characters

Width 16 inches

Height 8 inches

Depth 20 inches

Weight 34 pounds

Nominal primary power:

100, 120, 220, or 240 volts

Nominal frequency:

50 or 60 Hz

SPERRY UNIVAC Diskette Subsystem

Storage capacity per disk

256,000 characters

Transfer rate

31,000 characters per second

Width 16 inches

Height 13 inches

Depth 16 inches

Weight

(with single diskette drive)

20 pounds

Nominal primary power and frequency

100/120 or 200/240 volts at 60 Hz

100/120 or 200/240 volts at 50 Hz



SPERRY UNIVAC Model 800

Terminal Printer

Print speed

300 characters per second

Character set

96 characters, uppercase and lowercase

Width 18½ inches

Height 7 inches

Depth 16½ inches

Weight 34 pounds

Nominal primary power

100, 120, 220, or 240 volts

Nominal frequency

50 or 60 Hz

SPERRY UNIVAC

Communications Output Printer

Print speed

30 characters per second

Character set

63 printable characters, uppercase

Width 38 inches

Height 36 inches

Depth 31 inches including paper rack

Weight 100 pounds

Nominal primary power

120 volts at 60 Hz

220 volts at 50 Hz

SPERRY UNIVAC

Terminal Multiplexer

Terminal capacity

Interfaces up to eight terminals with expansion features to interface eight more

Modems

SPERRY UNIVAC U-201

Synchronous Modem

SPERRY UNIVAC U-202

Asynchronous Modem

Width 16 inches

Height 12 inches

Depth 8½ inches

Weight 30 pounds

Nominal primary power and frequency

120 volts at 60 Hz

220 volts at 50 Hz

100, 115, 125, 200, 230 or 250 volts at 50 or 60 Hz

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